

~~Another object of the invention is that of providing a system for the extraction of gases a method for extracting and re-injecting a gaseous fluid from and to a process environment. which reduces in the most complete manner the ingress of dust and condensate through the probe, as well as guaranteeing continuity and reliability of the analysis.~~

~~This object is achieved according to the invention by a system for extracting gases from a process environment, having the characteristics defined in Claim 11.~~

Please add the following paragraph on page 3, line ²¹~~10~~:

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The reliability and continuity of the system makes it possible to utilize its output for automatic furnace management (not having compressed air washing which gives rise to O₂ peaks). The capacity of the compressor is high, therefore the response is faster than in usual systems, and possible micro-losses have no influence. Consequently a more reliable analysis is achieved.

Please add the following paragraph on page 4, line 24:

The probe is easy to install in a short time, not requiring a great deal of work for adaptation of the existing system to be able to connect it. Moreover, it does not require a great deal of care in research for the optimum position in the furnace (the minimum dust point etc.)

Please delete the paragraphs on page 5 beginning on line 5.

Please amend the paragraphs beginning on page 7, line 27 as follows:

The coupling of the two chambers (gas and cooling, that is to say the second and third tube 2, 3, from the inside working outwardly), gives rise to an interspace IN, blind at the probe bottom (outer furnace side) and open at the head TS (inner furnace size) that is to say it is licked by the gas. This avoids the formation of condensation with the gas aspiration tube 2 (second